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0602-1370.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE REISSUE APPLICATION OF)
)
Michael George PIERSE) Examining Attorney: To Be Assigned
) Art Unit No.: To Be Assigned
)
Reissue Application No.: To Be Assigned)
)
Patent No.: 5,996,431)
Issue Date: Dec. 7, 1999)
)
For: TWIST ACTION FRICTION DRIVE)
)

DECLARATION FOR REISSUE OF U.S. PATENT NO. 5,996,431

Honorable Director of
Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

As the below-named inventor, I hereby declare that:

1. My residence, mailing address and citizenship are stated below next to my name. I believe I am the original, first and sole inventor of the subject matter which is described and claimed in U.S. Patent No. 5,996,431 (the "431 patent") issued December 7, 1999, and for which a broadened reissue patent is hereby sought in the present reissue application for an invention entitled TWIST ACTION FRICTION DRIVE.

2. Reissue of the '431 patent is being sought to cure one or more errors in the '431 patent.

3. I believe the '431 patent to be wholly or partly inoperative or invalid for the following reasons:

(A) by reason of the patentee claiming less than patentee had a right to claim in the '431 patent; and,

(B) by reason of a defective specification or drawing.

4. In particular independent claim 1 in the '431 patent is believed to be too narrow and Figure 1 of the '431 patent fails to incorporate amendments made thereto during the prosecution of the '431 patent.

5. Independent claim 1 of the '431 patent includes a stipulation that "a driven member which is rotationally fixed relative to the drive bar." I believe that this stipulation could be misconstrued as suggesting that the driven member and the drive bar of the friction drive rotate together, thus making the '431 patent wholly or partially inoperative or invalid by reason of the patentee claiming less than patentee had a right to claim. One skilled in the art will appreciate from the statement of invention set forth in the '431 patent and the present reissue application that the driven member is rotationally fixed, but not to the drive bar. The drive bar rotates the roller means about a second axis which is inclined to the first axis of the rotationally fixed driven member. The roller means is urged against the driven member (generally a tube) and thereby frictionally drives the driven member in a linear direction along the first axis of the rotationally fixed driven member. The driven member does not rotate, but is driven (pushed) linearly along the first axis.

6. It was discovered that Figure 1 of the '431 patent failed to include the amendments thought to be made thereto during prosecution of the '431 patent. More specifically, counsel for the applicant submitted changes to Figure 1 by a letter directed to the Official

Draftsperson dated August 13, 1999. The proposed changes included adding additional reference numerals for the driving head 10, control unit 15, tachometer 17, hydrostatic bearings 20, oil return passage 22 and the corrugated axially extensible tube 40. The changes further included a representation of the control unit 15.

7. I hereby state that I have reviewed and understand the contents of the present reissue application, including the claims as amended in this reissue application.

8. All errors corrected in this reissue application arose without any deceptive intention on the part of the applicants.

9. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>Country</u>	<u>Number</u>	<u>Date Filed</u>	<u>Priority Claimed</u>	
			<u>Yes</u>	<u>No</u>
United Kingdom	9618642.4	6 September 1996	✓	—

10. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56, including the obligation to disclose such material information which has come to applicants' attention between the filing date of the prior application and the filing date of this reissue application.

11. I hereby appoint Thomas E. Smith, Registration No. 18,243, Dennis M.

McWilliams, Registration No. 25,195, James R. Sweeney, Registration No. 18,721, William M. Lee, Jr., Registration No. 26,935, Glenn W. Ohlson, Registration No. 28,455, David C. Brezina, Registration No. 34,128, Jeffrey R. Gray, Registration No. 33,391, Timothy J. Engling, Registration No. 39,970, Gerald S. Geren, Registration No. 24,528, Robert F. I. Conte, Registration No. 20,354, Peter J. Shakula, Registration No. 40,808, Wm. Marshall Lee, Registration No. 16,853, and Mark A. Hagedorn, Registration No. 44,731 to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. It is requested that all communications be directed to:

William M. Lee, Jr.
Lee, Mann, Smith, McWilliams, Sweeney & Ohlson
P.O. Box 2786
Chicago, Illinois 60690-2786
Telephone: (312) 368-1300
Telecopier: (312) 368-0034

12. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this reissue application or any patent issued thereon.

Full name of sole inventor: Michael George Pierse.

Signature

Date 16 Nov. 2001

Country of Residence: United Kingdom
Country of Citizenship: British Subject
Post Office and Residence : 216 Castle Road
Bedford, MK40 3TY
United Kingdom

Run	Time	Lat	Long	Alt	Temp	Humid	Wind	WindDir	WindSpd	WindDir2	WindSpd2	WindDir3	WindSpd3	WindDir4	WindSpd4	WindDir5	WindSpd5	WindDir6	WindSpd6	WindDir7	WindSpd7	WindDir8	WindSpd8	WindDir9	WindSpd9	WindDir10	WindSpd10	WindDir11	WindSpd11	WindDir12	WindSpd12	WindDir13	WindSpd13	WindDir14	WindSpd14	WindDir15	WindSpd15	WindDir16	WindSpd16	WindDir17	WindSpd17	WindDir18	WindSpd18	WindDir19	WindSpd19	WindDir20	WindSpd20	WindDir21	WindSpd21	WindDir22	WindSpd22	WindDir23	WindSpd23	WindDir24	WindSpd24	WindDir25	WindSpd25	WindDir26	WindSpd26	WindDir27	WindSpd27	WindDir28	WindSpd28	WindDir29	WindSpd29	WindDir30	WindSpd30	WindDir31	WindSpd31	WindDir32	WindSpd32	WindDir33	WindSpd33	WindDir34	WindSpd34	WindDir35	WindSpd35	WindDir36	WindSpd36	WindDir37	WindSpd37	WindDir38	WindSpd38	WindDir39	WindSpd39	WindDir40	WindSpd40	WindDir41	WindSpd41	WindDir42	WindSpd42	WindDir43	WindSpd43	WindDir44	WindSpd44	WindDir45	WindSpd45	WindDir46	WindSpd46	WindDir47	WindSpd47	WindDir48	WindSpd48	WindDir49	WindSpd49	WindDir50	WindSpd50	WindDir51	WindSpd51	WindDir52	WindSpd52	WindDir53	WindSpd53	WindDir54	WindSpd54	WindDir55	WindSpd55	WindDir56	WindSpd56	WindDir57	WindSpd57	WindDir58	WindSpd58	WindDir59	WindSpd59	WindDir60	WindSpd60	WindDir61	WindSpd61	WindDir62	WindSpd62	WindDir63	WindSpd63	WindDir64	WindSpd64	WindDir65	WindSpd65	WindDir66	WindSpd66	WindDir67	WindSpd67	WindDir68	WindSpd68	WindDir69	WindSpd69	WindDir70	WindSpd70	WindDir71	WindSpd71	WindDir72	WindSpd72	WindDir73	WindSpd73	WindDir74	WindSpd74	WindDir75	WindSpd75	WindDir76	WindSpd76	WindDir77	WindSpd77	WindDir78	WindSpd78	WindDir79	WindSpd79	WindDir80	WindSpd80	WindDir81	WindSpd81	WindDir82	WindSpd82	WindDir83	WindSpd83	WindDir84	WindSpd84	WindDir85	WindSpd85	WindDir86	WindSpd86	WindDir87	WindSpd87	WindDir88	WindSpd88	WindDir89	WindSpd89	WindDir90	WindSpd90	WindDir91	WindSpd91	WindDir92	WindSpd92	WindDir93	WindSpd93	WindDir94	WindSpd94	WindDir95	WindSpd95	WindDir96	WindSpd96	WindDir97	WindSpd97	WindDir98	WindSpd98	WindDir99	WindSpd99	WindDir100	WindSpd100	WindDir101	WindSpd101	WindDir102	WindSpd102	WindDir103	WindSpd103	WindDir104	WindSpd104	WindDir105	WindSpd105	WindDir106	WindSpd106	WindDir107	WindSpd107	WindDir108	WindSpd108	WindDir109	WindSpd109	WindDir110	WindSpd110	WindDir111	WindSpd111	WindDir112	WindSpd112	WindDir113	WindSpd113	WindDir114	WindSpd114	WindDir115	WindSpd115	WindDir116	WindSpd116	WindDir117	WindSpd117	WindDir118	WindSpd118	WindDir119	WindSpd119	WindDir120	WindSpd120	WindDir121	WindSpd121	WindDir122	WindSpd122	WindDir123	WindSpd123	WindDir124	WindSpd124	WindDir125	WindSpd125	WindDir126	WindSpd126	WindDir127	WindSpd127	WindDir128	WindSpd128	WindDir129	WindSpd129	WindDir130	WindSpd130	WindDir131	WindSpd131	WindDir132	WindSpd132	WindDir133	WindSpd133	WindDir134	WindSpd134	WindDir135	WindSpd135	WindDir136	WindSpd136	WindDir137	WindSpd137	WindDir138	WindSpd138	WindDir139	WindSpd139	WindDir140	WindSpd140	WindDir141	WindSpd141	WindDir142	WindSpd142	WindDir143	WindSpd143	WindDir144	WindSpd144	WindDir145	WindSpd145	WindDir146	WindSpd146	WindDir147	WindSpd147	WindDir148	WindSpd148	WindDir149	WindSpd149	WindDir150	WindSpd150	WindDir151	WindSpd151	WindDir152	WindSpd152	WindDir153	WindSpd153	WindDir154	WindSpd154	WindDir155	WindSpd155	WindDir156	WindSpd156	WindDir157	WindSpd157	WindDir158	WindSpd158	WindDir159	WindSpd159	WindDir160	WindSpd160	WindDir161	WindSpd161	WindDir162	WindSpd162	WindDir163	WindSpd163	WindDir164	WindSpd164	WindDir165	WindSpd165	WindDir166	WindSpd166	WindDir167	WindSpd167	WindDir168	WindSpd168	WindDir169	WindSpd169	WindDir170	WindSpd170	WindDir171	WindSpd171	WindDir172	WindSpd172	WindDir173	WindSpd173	WindDir174	WindSpd174	WindDir175	WindSpd175	WindDir176	WindSpd176	WindDir177	WindSpd177	WindDir178	WindSpd178	WindDir179	WindSpd179	WindDir180	WindSpd180	WindDir181	WindSpd181	WindDir182	WindSpd182	WindDir183	WindSpd183	WindDir184	WindSpd184	WindDir185	WindSpd185	WindDir186	WindSpd186	WindDir187	WindSpd187	WindDir188	WindSpd188	WindDir189	WindSpd189	WindDir190	WindSpd190	WindDir191	WindSpd191	WindDir192	WindSpd192	WindDir193	WindSpd193	WindDir194	WindSpd194	WindDir195	WindSpd195	WindDir196	WindSpd196	WindDir197	WindSpd197	WindDir198	WindSpd198	WindDir199	WindSpd199	WindDir200	WindSpd200	WindDir201	WindSpd201	WindDir202	WindSpd202	WindDir203
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IN RE THE REISSUE APPLICATION OF)
Michael George PIERSE) Examining Attorney: To Be Assigned
Reissue Application No.: To Be Assigned) Art Unit No.: To Be Assigned
Patent No.: 5,996,431)
Issue Date: Dec. 7, 1999)
For: TWIST ACTION FRICTION DRIVE)

CONSENT OF ASSIGNEE TO REISSUE, STATEMENT UNDER 37 CFR 3.73(b), AND
OFFER TO SURRENDER ORIGINAL PATENT


Unova U.K. Limited, the assignee of the entire right, title and interest to U.S. Patent No. 5,996,431, consents to the filing of the present application filed herewith for reissue of U.S. Patent No. 5,996,431.

An assignment of patent application Serial No. 09/051,248 which resulted in U.S. Patent No. 5,996,431, from the inventor, Michael George Pierse, to Unova U.K. Limited, is recorded against U.S. Patent No. 5,996,431 at Reel/Frame 9149/0412 with a recordation date of April 2, 1998.

Unova U.K. Limited hereby offers to surrender the original U.S. Patent No. 5,996,431 for purposes of reissue thereof.

UNOVA U.K. LIMITED

Date: 22nd NOVEMBER 2001.


Signature
ROY ARTHURTON
Typed or printed name
COMPANY SECRETARY
Title